



TEXAS AIR CONTROL BOARD

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July 25, 1989

Robert E. Layton, 6A Regional Administrator Environmental Protection Agency, Region 6

1445 Ross Avenue

Dallas, Texas 75202

596 5W-S

DEGION VI

JOHN L BLAIR MARCUS M. KEY, M.D. OTTO R. KUNZE, PH.D., P.E. HUBERT ONFORD, IN

MARYANNEWYATT

Superfund file

DEC 07 1992

Dynagen Inc / TXD057422685/

Dear Mr. Layton:

REORGANIZED

This is a complaint referral regarding reports of damaged pit liners in the solar ponds and also possible uncapped water wells underneath these waste water ponds, at a major chemical facility, DynaGen - a subsidiary of the General Tire and Rubber Company, in Odessa. Reportedly, these problems may have existed since the late 1970's.

In the 1970's, DynaGen constructed six solar evaporation ponds for treatment of waste water effluent from the daily plant production of styrene-butadiene synthetic crumb rubber. Prior to the construction of the solar ponds, the former plant manager, the late P. J. Wallace, raised cattle on this acreage with the assistance of Mr. Arby Miller and Mr. Earnest Husband, who were originally cow hands working that acreage and are currently two of the three chief safety-officers in the plant. Mr. Keith Pearson was the Safety-Environmental Manager for the facility, but has just been transfered.

The presence of old water wells on this acreage is well known by present and past plant employees. There are probably also county or city records that document the water wells and their location.

Solid allegations have been reported that the DynaGen solar ponds (six of them) may have significant damage to the plastic pit liner, which is to the point that they can not hold water levels anymore. Furthermore, gravel and large rocks have reportedly been put down and into the solar ponds below water level in order to hold the liner down in place.

Winds reportedly have also gotten underneath the liner on several occasions, and have left a lot of bubbles on the bottom and this may have put pressure to

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float the liner, thus requiring contractors to bring in a large load of rocks. The rocks may also be used to cover the deteriorating plastic around the exposed upper edges of the liner.

It may be relatively easy to inspect the rock-covered edges of the plastic linear for signs of damage and deterioration. Mr. Earnest Husband and management have allegedly supervised the repair work. Damage and deterioration of the plastic liner has reportedly occurred to at least several of the larger solar ponds.

It has been reported that, in the past, one employee actually met with a local Odessa attorney, approximately ten years ago to consider bringing formal charges against company management, regarding the ground water contamination problem from the solar ponds and also the damaged plastic liner. Since there were not sufficient in-plant witnesses willing to support the allegations, the case was not pursued any further.

One reason that the plastic liner may have become damaged is due to low water levels on several occasions and the sun baked the plastic liner, to the point that the several of the ponds will not hold constant water levels without a constant in-put. It would be interesting to talk to the maintainer operators who actually spread the gravel (to cover the damage) for the local contractor, which is the Jones Brothers Paving Contractors in Odessa. The Jones Brothers firm has been hauling loads of gravel and rock into the solar ponds area, reportedly for at least ten years.

In the 1970's, it was reported that there were at least four water wells on the previous grazing acreage, perhaps left uncapped during the construction phase of the solar ponds, and a concern was expressed for ground water contamination if they were uncapped. The Texas Water Commission apparently has no current records to support the existence of prior wells.

Ground water contamination problems do exist downstream in the water table from the Odessa Petrochemical Complex, in which the DynaGen Facility is located. This information recently came out in a recent litigation and a lawsuit by private citizens, with contaminated water wells, against the City of Odessa Waste Water Treatment plant, also located next to the Complex.

Large scale amounts of hydrocarbon liquids, containing 95% benzene and the rest benzene-derivatives, were reported by another facility in the Complex, next to DynaGen. Tests indicated that as much as 500,000 gallons of hydrocarbon liquids are present underneath this neighboring facility, and plans are in progress to recover much of this liquid in 1989-90.

Another DynaGen employee, within the past two years, has reportedly made a complaint with the Texas Water Commission, but reportedly there was no official response or investigation of the solar ponds at that time.

Several individuals are currently interested in providing pertinent information and statements concerning the potential problems with these solar waste water evaporative ponds, but are interested in discussing the problems only with federal officials.

The Texas Air Control Board regional office has recently issued a series of nuisance violations, as a result of odorous emissions from decaying organic matter in the ponds. DynaGen has indicated to the Texas Air Control Board that it intends to have a Houston-based contractor conduct a dredging operation in the ponds in August, and the complainant individuals are concerned that the reported problem of the damaged liner might be further covered-up.

If you have any questions regarding this information, please feel free to contact me at 915/367-3871.

Sincerely,

Neil J. Carman, PhD

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Staff Services Officer

Air Quality Control Region VI

1901 E. 37th, Suite 101

Odessa, Texas 79762

cc: Myron O. Knudson, 6W, Division Director, Water Management



ODESSA REGIONAL OFFICE 1901 EAST 37TH STREET, SUITE 101 ODESSA, TEXAS 79762

For your information:

7/5/89

JERT:

THOUGHT YOU MIGHT WISH
TO LOOK AT THIS LISTO IT IS FROM
DUNMEN, ALTHOUGH YEARS CLO.
THE COLLY THING DIFFERENT IS
TOTKL AMOUNT OF WASTE IS NOW
ABOUT 963.6 TUNS/YE AS SHOWN IN
NEW 20NTINUANCE PERMIT, 1888-

Please call if you have any questions. (him.

Telephone: 915/367-3871

DEC 07 1992
REORGANIZED

TXD0574226851

MATERIAL BALANCE

	Raw Material Charged To				
Description	Plant lbs/yr.	Product 1bs/yr.	Incinerator lbs/yr	Atmosphere lbs/yr	Waste Water 1bs/y
Styrene .	26,656,032	26,240,198	179,340	236,494	-0-
Butadiene	85,969,297	84,765,727	601,460	602,110	-0-
Extender Oil	31,642,699	31,440,600	155,652	46,447	0-
Carbon Black	20,084,850	19,601,502	110,310	-0-	373,03
Antioxidant	1,118,014	829,582	88,441	-0-	199,99
Glue :	131,795	120,785	9 29	-0-	10,08
Rosin Acid Soap	4,108,082	3,870,000	37,457	-0-	200,62
Fatty Acid Soap	3,316,108	3,116,000	1,392	-0-	198,71
Mixed Fatty Acid	1,301,624	1,143,000	31,000	-0-	127,62
C ₁₈ H ₃₇	197,632	-0-	-0-	-0-	197,63
Activator Solution	432,994	-0-	-0-	-0-	432,99
Catalyst	166,975	165,804	1,171.	-0-	-0-
Modifier	261,110	259,270	1,840	-0-	-0-
Short Stop	279,556	277,586	1,970	-0-	-0-
H ₂ SO ₄	1,572,542	-0-	-0 -	-0-	1,572,54
NaOH	325,788	-0-	-0-	-0-	325,7 8
KCL	145,723	-0-	-0-	-0-	145,72
KOH	2,099,561	-0-	-0-	-0-	2,099,56
NAFA	31,950	31,000	950	-0-	-0-
TSP	224,295	-0-	-0-	-0-	224,29
TBE	7,153	. -0-	7,153	-0-	-0-
Colloid 982G	7,222	-0-	-0-	- 0-	7,22
NPH(Nitroso Phenylamine Hydroxy)	3,573	2,880	693	-0-	-0-
Ammonia	551	-0-	-0-	-0-	55
AO 535 (Phenolie)	843	601	242	-0-	-0-
Nalco 107 (Organic Amine)	397,113	36,000	-0-	-0-	361,11
Alum	2,143,719	-0-	-0-	-0-	2,143,71
West Vaco #95	220	220	-0-	-0-	-0-
Rubber Product (35, 9-77, 74.1)		171,900,755		885,051	8,621,2]
Scrapp to Incinerator			1,220,000	7	
	182,627,021				

NOTE: Balance does not include 85,950 lbs. H₂O contained in product rubber

RAW MATERIAL DESCRIPTION

Description Department 941 - Latex	Raw Material Charged to Plant (165/47
Soap Solution Rosin Acid Soap TSP (Tri Sodium Phosphate) Daxad NaOH Fatty Acid (Stearic) KOH KCL Nilox F-88 (Mixed Fatty-Rosin Acid) NAFA	4,108,082 224,295 197,632 177,090 3,316,108 2,099,561 145,723 1,301,624
Activator Solution EDTA (Versene) Copperas TPP (Tri Potassium Phosphate) SFS (Sodium Formaldehyde Sulfoxylate) Ethylene Diamine Tetra Acetic Acid Catalyst	31,950 278,815 40,151 1,865 109,063 3,100
Modifier Sulfole (Tertiary Dodecyl Mercaptan) Shortstops SDDC (Sodium Dimethyl Dithiocarbamate Sodium Polysulfide	166,975 261,110 161,309
Polyamine H (Ethylene Diamine) Sodium Nitrite DEHA (Diethylhydroxylamine) Misc: Latex Chemicals	25,825 14,603 51,632 26,187
TBC (Tertiary Butyl Catechol) Colloid 982G (Latex Defoamer) Nitroso Phenyl Hydroxylamine Aqua Ammonia AO 535 (Phenolic)	7,153 7,222 3,573 551 843
Department 942 - Coagulation Antioxidants - Staining Dresinate Tx (Tall Oil) BLE (Diphenyl Amine) Flexzone 7L (DMB-AOZ)	32,059 172,929 313,723

Raw Material Description, Cont'd

Antioxidants - Non-Staining	
Polygard (Tris Nonyl Phenyl Phosphite)	534,423
Flexon 680 (Oil Type ASTM 103)	64,880
•	-
Extender Oil - Staining	
ASTM - Type 101 ;	. 29,090,781
Tall Oil - Fatty Acid	770,066
•	•
Extender Oil - Non-Staining	
NAPH - ASTM - Type 103	1,520,361
NAPH - ASTM - Type 104A	261,491
•	
Miscellaneous - Coagulation	
NaOH	148,698
Sulfuric Acid	1,572,542
Alum	2,143,719
Clue	131,795
Nalco 107 (Amine)	397,113
Westvaco	220
Department 944 - Carbon Black	
ISAF	2,922,188
N-550	470,620
ISAF - HS	2,563,001
SAF - HS	181,240
N-339	12,697,981
N-234	90,580
N-351	1,159,240